

1 What is claimed is:

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3 1. A filter cover assembly of a washing machine, comprising:

4 a cover fitted to a filter hole provided at a cabinet of the washing machine for

5 loading/unloading a filter;

6 three protrusions extending downward from left, right, and central sides of a lower

7 end of the cover to be inserted in holes at left, right, and central portions of a lower side of a

8 filter case provided in the cabinet, respectively to communicate with the filter hole; and

9 three hooks protruding from left, right, and central sides of an upper end of the cover

10 toward the filter case to be inserted in hook holes at left, right, and central portions of an

11 upper side of the filter case, respectively.

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13 2. The filter cover assembly as claimed in claim 1, wherein at least one of the

14 protrusions comprises:

15 at least one slit provided along a length direction of the corresponding protrusion to

16 elastically deform both lateral sides of the corresponding protrusion inward and outward; and

17 a barb protruding outward from lower ends of both of the lateral sides of the

18 corresponding protrusion to prevent the corresponding protrusion having inserted in the hole

19 from being separated from the hole.

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21 3. The filter cover assembly as claimed in claim 1, wherein each of the hooks

22 comprises:

23 an extension part protruding from an upper end of the cover toward the filter case;

24 an elastic part bent from an end of the extension part toward the cover to have

elasticity upward and downward; and

a barb protruding from an upper surface of the elastic part to be inserted in the corresponding hook hole.

4. The filter cover assembly as claimed in claim 3, wherein each of the hooks further comprises a push piece extending from the elastic part to facilitate a user to push.

5. A filter assembly of a washing machine, comprising:
a filter hole at one side of a cabinet of the washing machine;
a filter case in the cabinet to have a front side communicate with the filter hole and to communicate with a tub and a drain hose of the washing machine;

a filter loaded in the filter case to filter particles in water flowing in the filter case;
and

a filter cover assembly comprising:

a cover fitted to a filter hole provided at a cabinet of the washing machine for loading/unloading a filter;

three protrusions extending downward from left, right, and central sides of a lower end of the cover to be inserted in holes at left, right, and central portions of a lower side of a filter case provided in the cabinet, respectively to communicate with the filter hole; and

three hooks protruding from left, right, and central sides of an upper end of the cover toward the filter case to be inserted in hook holes at left, right, and central portions of an upper side of the filter case, respectively.

49 6. The filter assembly as claimed in claim 5, wherein at least one of the
50 protrusions comprises:

51 at least one slit provided along a length direction of the corresponding protrusion to
52 elastically deform both lateral sides of the corresponding protrusion inward and outward; and

53 a barb protruding outward from lower ends of both of the lateral sides of the
54 corresponding protrusion to prevent the corresponding protrusion having inserted in the hole
55 from being separated from the hole.

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57 7. The filter assembly as claimed in claim 5, wherein each of the hooks
58 comprises:

59 an extension part protruding from an upper end of the cover toward the filter case;

60 an elastic part bent from an end of the extension part toward the cover to have
61 elasticity upward and downward; and

62 a barb protruding from an upper surface of the elastic part to be inserted in the
63 corresponding hook hole.

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65 8. The filter assembly as claimed in claim 7, wherein each of the hooks further
66 comprises a push piece extending from the elastic part to facilitate a user to push.

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68 9. A washing machine comprising:

69 a cabinet having a filter hole at one side;

70 a tub in the cabinet;

71 a drum rotatably provided in the tub;

72 a filter case in the cabinet to have a front side communicate with the filter hole and to

communicate with a tub and a drain hose of the washing machine;

a filter loaded in the filter case to filter particles in water flowing in the filter case;

and

a filter cover assembly comprising:

a cover fitted to a filter hole provided at a cabinet of the washing machine for loading/unloading a filter;

three protrusions extending downward from left, right, and central sides of a lower end of the cover to be inserted in holes at left, right, and central portions of a lower side of a filter case provided in the cabinet, respectively to communicate with the filter hole; and

three hooks protruding from left, right, and central sides of an upper end of the cover toward the filter case to be inserted in hook holes at left, right, and central portions of an upper side of the filter case, respectively.

10. The washing machine as claimed in claim 9, wherein at least one of the protrusions comprises:

at least one slit provided along a length direction of the corresponding protrusion to elastically deform both lateral sides of the corresponding protrusion inward and outward; and

a barb protruding outward from lower ends of both of the lateral sides of the corresponding protrusion to prevent the corresponding protrusion having inserted in the hole from being separated from the hole.

11. The washing machine as claimed in claim 9, wherein each of the hooks comprises:

97 an extension part protruding from an upper end of the cover toward the filter case;

98 an elastic part bent from an end of the extension part toward the cover to have
99 elasticity upward and downward; and

100 a barb protruding from an upper surface of the elastic part to be inserted in the
101 corresponding hook hole.

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103 12. The washing machine as claimed in claim 11, wherein each of the hooks
104 further comprises a push piece extending from the elastic part to facilitate a user to push.